## INTERNATIONAL SEARCH REPORT

nternational application No. PCT/KR2003/002169

| A. CLASSIFICATION OF SUBJECT MATTER   |  |  |                       |  |  |
|---|--|--|-----------------------|--|--|
| IPC7 G11B 7/13  |  |  |                       |  |  |
| According to L  | nternational Patent Classification (IPC) or to both natio  | nal classification and IPC   |                       |  |  |
|   | DS SEARCHED  |  |                       |  |  |
|   | umentation searched (classification system followed by   | classification symbols)  |                       |  |  |
| IPC7 G02B 7   | /04 G11B 7/00 G11B 7/095   |  |                       |  |  |
| Documentation   | n searched other than minimum documentation to the ex  | xtent that such documents are included in the fi   | elds searched         |  |  |
|   | - com and durat mini minimum adaminimum in no ma a   |  |                       |  |  |
|   |  |  |                       |  |  |
| Electronic data   | base consulted during the intertnational search (name  | of data base and, where practicable, search tem  | ns used)              |  |  |
|   | DVD, CD, photo, detector, tracking, focusing, differenti   |  |                       |  |  |
|   |  |  |                       |  |  |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT  |  |  |                       |  |  |
| Category*   | Citation of document, with indication, where app   | ropriate, of the relevant passages   | Relevant to claim No. |  |  |
|   |  |  | 1.6                   |  |  |
| Y   | US 6,493,296 B1(Sony Corp.) 10 Dec. 2002<br>See abstract, Fig. 3   |  | 1-6                   |  |  |
|   |  |  | 1.6                   |  |  |
| Y   | US 6,507,009 B1(Hitachi, Ltd.) 14 Jan. 2003<br>See Fig. 5-7, Fig. 12-13  |  | 1 <b>-6</b>           |  |  |
|   |  |  | ,                     |  |  |
| A   | US 6,064,637 A(Industrial Technology Research Institute) 16 May. 2000<br>See abstract, Fig. 8a-8b  |  | 1                     |  |  |
| A   | US 6,285,635 B1(Matsushia Electric Industrial Co., Ltd.) 4 Sep. 2001<br>See Fig. 1-2   |  | 1                     |  |  |
| 1   | 7  | 1000   | 1                     |  |  |
| A   | US 5,914,925 A(Eastman Kodak Company) 22 Jun<br>See Fig. 4   | . 1777   | 1                     |  |  |
|   | US 6,292,453 B1(Sony Corp.) 18 Sep. 2001   |  | 1                     |  |  |
| A   | See Fig. 4   |  | -                     |  |  |
| A   | US 6,424,606 B1(Creative Technology LTD) 23 Ju   | 1. 2002  | 1                     |  |  |
|   | See Fig. 3   |  |                       |  |  |
| Further   | documents are listed in the continuation of Box C.   | X See patent family annex.   |                       |  |  |
|   | ategories of cited documents:  | "T" later document published after the internation   |                       |  |  |
|   | defining the general state of the art which is not considered articular relevance  | date and not in conflict with the application<br>the principle or theory underlying the invent |                       |  |  |
| "E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed   |  |  | d invention cannot be |  |  |
| filing date   |  |  |                       |  |  |
| cited to es   | cited to establish the publication date of citation or other special reason (as specified)  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is |  |                       |  |  |
| "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such co  |  |  |                       |  |  |
| means being obvious to a person skilled in the art  "P" document published prior to the international filing date but later "&" document member of the same patent family |  |  |                       |  |  |
| than the priority date claimed  |  |  |                       |  |  |
|   | tual completion of the international search  | Date of mailing of the international search re   | port                  |  |  |
| 10 MAY 2004 (10.05.2004)  |  | 11 MAY 2004 (11.05.2004)   |                       |  |  |
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| racsimile No.   | . 82-42-472-7140   | 1 elephone INO. 02-42-401-3003   |                       |  |  |

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2003/002169

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